OPTION LU70
DOG HANDLER PICKUP
FY2023

INSTRUCTIONS TO CONTRACTOR:

The contractor shall explicitly and completely identify any and all exceptions taken to the requirements of this specification. Drawings, literature, and any other information submitted with an offer do not constitute a stated or implied exception unless specifically identified in writing as an exception and accepted and implemented by an amendment to the solicitation or modification to a contract. Any exception deemed acceptable by the Government shall only apply to the specific item, requirement, etc. cited, and shall not extend to any other requirement.

The contractor proposing other than brand name items identified, when an "or equal" may be acceptable, shall furnish with their offer all technical data information, product descriptions, etc. to ensure that a determination may be made as to the equality of the product(s) offered (see provision titled "Brand Name or Equal" set forth in Section 52.211-6 of the Federal Acquisition Regulations).

1. SCOPE
This product description is for full size pick-up, GSA Item 55 and 55E as specified within.

2.0 APPLICABLE DOCUMENTS

2.1 FEDERAL STANDARDS AND CODES
Code of Federal Regulations 49 CFR 393 (FMCSR) and 571 (FMVSS)
Application for copies of DOT publication should reference the code of Federal Regulations, 49 CFR, and the Federal Register and should be addressed to the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.)
They may also be accessed on the Internet through GPO Access at http://www.access.gpo.gov.

USDOT/FAA Advisory Circular AC 150/5210-5D Painting, Marking, and Lighting of Vehicles Used on an Airport
The USDOT/FAA Advisory Circular AC 150/5210-5D Painting, Marking, and Lighting of Vehicles Used on an Airport may be found at the following URL:
http://www.faa.gov/documentLibrary/media/Advisory_Circular/150_5210_5d.doc

2.2 SOCIETY OF AUTOMOTIVE ENGINEERS, INC
J1292 Automobile, Truck, Truck-Tractor, Trailer, and Motor Coach Wiring.
Application for copies of SAE publications should be addressed to SAE, Inc., 400 Commonwealth Drive, Warrendale, PA 15096

2.3 NATIONAL TRUCK EQUIPMENT ASSOCIATION
ULTRAMOD Spreadsheet
Application for the NTEA ULTRAMOD spreadsheet should be addressed to: NTEA, 37400 Hills Tech Drive, Farmington Hills, MI 48331-3414

3.0 REQUIREMENTS

Materials shall be as specified herein. When materials are not specified, the vehicle and all parts thereof shall be furnished to provide the intended function, durability, safety, and maintain good long-term appearance. All materials shall be new, shall be suitable for the intended purpose, and shall be free of any characteristics or defects in material and workmanship, which may affect the performance, function, durability, and serviceability of the finished vehicle, or detract from its appearance. The government reserves the right to make the final determination of the suitability of all components and their arrangement on and in the vehicle

All conversions and modifications shall conform to the OEM's Modifier/Upfitter guide.

The application and installation of major subcomponents and systems shall be compliant with subcomponent vendors' requirements and recommendations.

3.1 BASE TRUCK CONFIGURATION

Part A: GSA Options: none required, ordering activities shall configure and select GSA options.

Part B: GSA Options: mandatory, the **GSA contractor must include the options listed below in the price of this LU option**. The content(s) of the following option(s) is/are required to provide a turn-key solution. The ordering activity must not select these individual options when selecting this LU option in AutoChoice as this action will result in redundant pricing. Ordering activities may not request deletion of any of the option(s) when selecting this LU option. Requests or orders submitted with AREQs to delete any of these options will be rejected by GSA.

DESCRIPTION	FORD	DODGE
CTB	Ford Option 67T	DODGE Option XHC

3.2 UPFITTING GENERAL

All required resources, supplies, equipment, and the installation of the equipment shall be provided. The base vehicles will be shipped from the OEM to the place of performance. The work shall be executed at a single location to assure uniformed installation processes. The effort includes installing communications, electrical, lighting, and support equipment to produce fully-functional vehicle capable of supporting TSA's mission. The vehicles shall meet all applicable DOT and FMVSS safety standards after modification. Modifications shall not disable vehicle OEM features, unless specified within.

3.3 AMBER WARNING and CANINE LIGHTING
The vehicle shall be equipped with an amber warning lighting system including the required controllers, relays, and harnesses. All equipment shall be installed in full compliance with manufacturer's guidelines and recommendations. The system shall be installed in accordance to the OEM's Modifier/Upfitter Guide. The installation shall include the integration (cables, connections, and programming). The location and mounting of the lights shall be reviewed and approved by the GSA/TSA at the Verification Design Review meeting

The lighting system shall include the following features:

Rear split lense amber/clear flashing warning lights shall be programmed for alternating flash pattern.

Surface mounted LED split lense amber/clear warning lights shall be installed on each exterior side of the bed topper. The colors shall be programmed for alternating flash pattern. The clear lights shall face forward.

Hideaway corner LED split color amber/clear near front headlights shall be provided.

All warning lights shall be activated by the K-9 alarm.

A roof lightbar shall be mounted on a vehicle matching bracket

One (1) red and white LED light shall be provided on the ceiling of the specified canine provisions. On/Off and selection of either red or white colors shall be controlled by switch(s) located by the driver.

DESCRIPTION	FORD	DODGE
Two (2) spilt lens amber/clear LEDS mounted under the tailgate, Whelen, or equal.	TLIF	TLMIF
Four (4) bed topper lights with split lens amber/clear LEDs and bracket, Whelen or equal.	TLIF	TLIF
Two (2) front end hideaway split lens amber/clear LEDs, Whelen, or equal	TIIF	TIIF
One (1) lightbar and bracket, Whelen, or equal	GT9AAAAP Mini Legacy SOLO with 4 GSDSA DUO+ Series Linear-LED® Flasher, 1 Short Amber/Amber	GT9AAAAP Mini Legacy SOLO with 4 GSDSA DUO+ Series Linear-LED® Flasher, 1 Short Amber/Amber
One (1) red and white LED light in rear canine platform ceiling	Red/White 60CREGCS	Red/White 60CREGCS

3.4 LAPTOP PACKAGE
One (1) heavy duty passenger side lap top mount shall be provided. The lap top mount package includes the base plate that mounts to the passenger seat, pole (standard length plus 3 inches) with adjustable handle, sliding and swing arm motion device with tilt-swivel, and stability support arm. One (1) universal mount for laptops with widths up to 17 inches shall be provided. The mount shall be installed on the swing arm. The mount shall not impede passenger space. The location and mounting of the laptop package shall be reviewed and approved by the GSA/TSA at the Verification Design Review meeting

DESCRIPTION	FORD	DODGE
One (1) heavy duty passenger side lap top mount, Troy Products, or equal, shall be provided.	CM-F15-H-SL-LT-17	CM-RAM-SL-LT17

3.5 CANINE PROVISIONS

One (1) canine platform with window guards and door panels shall be provided and installed. The platform shall be constructed from 0.125 inch mill finish aluminum finish. All material finishes shall be powder coated black. Delete the manufacturer's standard water bowl and do not install the mounting provisions.

The platform shall include a front sliding emergency escape door on sliding track with spring loaded locking system. A flip-up platform shall be provided in front of the escape door to improve canine leg safe ease of egress. The back panel shall be made of mill finish aluminum. A seamless spill-proof base pan fully welded, shall be contoured to allow canine leg safe ease on entry and exit. The base shall extend door sill to door sill utilizing all available space and allowing for easy rinsing and cleaning without damage to the vehicle. All platforms shall include contoured window guards and door panels. The window guards shall be hinged either on top or bottom to allow for easy cleaning and maintenance. The door panels shall be contoured, smooth, flat design.

All sharp edges shall be deburred. All mounting shall be tool fastened. Flush mounted or rounded fasteners shall be used on the interior of the platform.

The front partition shall include clear plastic guards behind the driver and passenger head rests. The guards shall prevent the canine from accessing the seating head rests. The guard shall be installed on the forward side of the partition.

The standard removable rubber mat line shall be provided.

One (1) temperature monitor, alarm, fan, shroud, control module, remote pager with control, antenna, and cabling shall be provided and installed. The fan's exhaust shall be located on the passenger side rear door and shall be mounted between the window and the window guard. The fan shall be thermostatically controlled with heat alarm activated at 83 degrees F and cold alarm activated at 36 degrees F. The window shall be automatically controlled via the thermostat, ie: opens when the fan is energized. The system shall be installed in accordance to the manufacturer's instructions.

DESCRIPTION	FORD	DODGE
One (1) canine platform with window guards and door panels, American Aluminum E/Z Rider, model PF-150 Crew Cab, or equal, shall be provided and installed.	PF-F150 -Crew Cab	PF-RAM1500-SUPERCREW
One (1) custom rubber mat liner, American Aluminum, model E/Z Rubber Mat, or equal, shall be provided.	E/Z Rubber Mat	E/Z Rubber Mat
One (1) temperature monitor, alarm, fan, shroud, and control module, Zero RPM, or equal, shall be provided and installed.	EZ Coolguard 900	EZ Coolguard 900

3.6 BED TOPPER
A one piece topper shall be provided sealed against water and weather intrusion. The topper shall be the same height as the OEM cab. The topper shall be constructed of .035 aluminum skin and the following:

1. 23 inch tall rectangular cap, which aligns with the top of the cab
2. Color to match the vehicle described on the GSA motor vehicle delivery order
3. Rear door no glass
4. Full length side doors, no glass, no shelves
5. Interior LED lighting activated by door opening

Install retractable box-side steps placed forward of the truck's rear wheels, one (1) on each side

DESCRIPTION	FORD	DODGE
The one piece topper ARE, or equal, shall be provided	DCU	ATBENG
Two (2) retractable box-side steps Amp Research, or equal, shall be provided.	Bed Step 2	Bed Step 2

3.7 DAYBOX
A day box meeting the requirements of ATF Type 3 magazine requirements shall be provided and installed in the rear bed. The minimum overall dimensions of the daybox shall be 42" Width x 18" Depth. The box shall be able to contain four (4) sportsman dry boxes, 13.75" x 7.5" x 9.5" H. The box shall be constructed of 0.125" thick steel tread plate lined with 0.50" plywood, the wood inside the box shall be treated with bed lining material. The box shall be mounted on sliders, include a lid with gas springs, and a handle. The receiver housing shall be constructed of 10 gauge steel mesh and include a plywood upper deck. The deck top shall be covered with carpet. The daybox mounting shall be offset towards the passenger (right) side to allow access to the forward section of the bed. The location and mounting of the daybox shall be reviewed and approved by the GSA/TSA at the Verification Design Review meeting

The daybox shall be an Extendo Bed Company, model HLS--DAY BOX, or equal.

Two (2) keyed padlocks, number 5 tumbler, keyed alike, suitable for use with the daybox, shall be provided. Both locks shall include laminated steel bodies, hardened shackles with diameters compatible with the specified daybox, and laminated steel pin tumblers.

3.8 DUAL TONE ELECTRIC HORN
Electric dual tone horns shall be provided and integrated into the OEM horn activation switch. The OEM horns shall be disabled. The electric horns shall be rated minimum 2 x 66 watts, 500Hz high/300 Hz low frequency, 118 dBA at 12V.

3.9 FLASHLIGHT CHARGER
One (1) rechargeable Nickel Cadmium (Ni-Cd) battery, with 3.7 Volt , 6 watt xenon gas bulb, 90 lumen, 7.4 inch length flashlight, Streamlight model Stinger.

A 12VDC 2.5 hour fast charger with cradle shall be provided. The charger for the Government provided flashlight shall be mounted forward of the center OEM console.

The government end user shall acquire and issue the following flashlight after delivery.

3.10 FRONT SEAT COVERS
Tiger Tough, or equal, tactical seat covers shall be provided and installed. The seat covers shall be designed for law enforcement use, include a high abrasion 1000 dernier material with a reinforced layer in the lower section.

DESCRIPTION	FORD	DODGE
The tactical seat cover shall be a Tiger Tough, or equal.	T52135B	T72134B

3.11 FRONT FLOOR LINER

Weather Tech, Husky, or equal, floor liner kit compatible with the OEM vinyl flooring shall be provided. The floor liner shall cover the first row. Part numbers may vary by makes/models

DESCRIPTION	FORD	DODGE
The floor liner shall be Weather Tech, Husky, or equal.	446971V	Husky

3.12 TOWING PROVISIONS

The vehicle shall be equipped with a class IV ball mount and ball. The mount shall in include a 2 inch x 2 inch shank and be rated for 10,000 pounds gross trailer weight and 1000 pounds tongue weight. The 2 inch ball shall be nickel chrome finish and be rated a minimum capacity of 10,000 pounds. A keyed hitch lock assembly shall be provided.

3.13 DC ELECTRICAL SYSTEM

All DC wiring shall be in accordance with the applicable portion of SAE J1292.
All DC wiring mounted to the chassis or outside the body shall be stranded copper conductors.
All DC wiring shall be routed in flexible loom or conduit (tie wraps are not acceptable) and in accordance to the OEM's Body Builder Layout Book.
All wiring shall be secured to prevent snags and pinching that could damage or disconnect the wire.
The wiring terminals used in all DC wiring shall grip the wire insulation as well as the conductor.
Fasteners, conduit, and conduit fittings for electrical wiring shall not exhibit electrolysis with adjacent materials.
Exterior wiring shall be accessible for replacement without removing any component of the SUV.
Grommets or electrical bulkhead fittings shall be employed for any wire passing through a structural member.
All DC wire shall be color-coded as specified in SAE J1292.

The wire and circuit breaker size shall be as follows:

Wire size (minimum)	Circuit breaker (maximum)
18 AWG	5 amperes
16 AWG	10 amperes
14 AWG	15 amperes
12 AWG	20 amperes
10 AWG	30 amperes
8 AWG	50 amperes

Corrosion protective coating shall be applied between ground lugs and the vehicle chassis.
Electrical conductors and cables routed in conduits and looms shall be continuous in length, connections, taps, splice, terminations shall not be concealed in conduit or loom unless reviewed and approved in advance by the government.
Conductors and cables may be terminated with the electrical/electronic devices' mating type connector or the vehicle OEM approved and released wire splice tool kit and procedures. Otherwise, the use of aftermarket butt splice, push-on

(spade), bullet, ring, insulation displacement types of connectors are prohibited unless reviewed and approved in advance by the government.
Conductors and cables, rated up to 20 amperes, shall be terminated with environmentally sealed electrical connection system. Weather pack flexible pin and sleeve terminals with dual locking tangs shall be installed with calibrated ratchet type crimpers. Self-lubricating seals shall be installed on all-weather pack terminals. Connector housings shall be either in-line or panel-mount types. The DC system shall be installed in accordance to the OEM's Modifier/Upfitter Guide

3.14 DC ELECTRICAL DISTRIBUTION AND CONTROL
In addition to the OEM provisions, at least one 12VDC branch power circuit shall be provided. The circuit(s) shall be protected by Buss Series 18X Hi-Amp Circuit Breakers or equal. Switches shall be accessible to the driver. Multiplexed wiring systems shall be installed to the extent possible

One (1) dedicated 12VDC 15A (minimum) circuit and outlet shall be provided for customer provided and installed laptop power supply.

3.15 ANTI-THEFT SYSTEM
The vehicle shall be equipped with an anti-theft system that maintains functionality of all electronic functions including environmental controls, radios, lights, computers, etc….. without leaving the vehicle vulnerable to theft.

DESCRIPTION	FORD	DODGE
Anti Theft System, Inter Motive Idle Lock, or equal.	G-IDLE504-A	B-IDLE750-A

3.16 120VAC EXTENSION CORD
One (1) 50 feet length 3 wire 12-gauge outdoor rated extension cord with a single NEMA 5-15 receptacle shall be provided. The extension cord will be used for the OEM engine block heater. The extension cord shall ship loose in the specified daybox.

3.17 CONSPICUITY MARKINGS
Conspicuity markings shall be provided and installed. A vehicle engineering layout drawing with markings shall be created and provided by the contractor. The markings shall include:

Red/White DOT/FMSS308 reflective conspicuity tape on inside door edges.

3.18 RESERVED

3.19 VEHICLE OPERATOR, PREVENTIVE MAINTENANCE, SERVICE, PARTS AND ELECTRICAL SCHEMATICS MANUALS
Operating and maintenance manuals for all body installed equipment/systems and components shall be furnished with each vehicle. Literature shall include all systems and component items furnished on the VEHICLE including but not limited to the following: the Operator's Manual, Service Manual, Parts Catalog, Lubrication Charts, base vehicle modifications and upgrades, hydraulic system, generator system, converter, breaker panel, lighting components, a/c system, heater system, and any other component furnished. The service manuals shall include 12 VDC and 115 VAC as built wiring diagrams. All body, sub-systems, and equipment requirements described above shall be functionally organized in electronic formats.

Manuals shall be furnished and well organized, thoroughly cross-indexed and authentic with no extraneous material such as advertisements or irrelevant information. All publications shall be submitted in electronic format in the form of CD-ROM disks. Within the manuals, the vehicles shall be treated as a whole and not as a grouping of disassociated parts from various suppliers. It shall be the responsibility of the contractor to insure that all of the suppliers' subsystems are presented in sufficient detail to present a complete and clear picture of the whole VEHICLE and that terms and functional designations of wires and components are consistent throughout. The material in all manuals shall be identically organized and indexed with compatible numbering.

QUANTITIES AND TYPES OF MANUALS

The manuals below are required for each VEHICLE and shall be provided to the Government in the quantities and categories as follows:

Operator's Instructional Manual

Preventive Maintenance Manual

Service Manual

The Service Manual shall include the following:

System Interface Diagrams, Mechanical

Diagnostic and troubleshooting

Parts Manual

Electrical Schematics Manual

One electronic copy of each manual and schematics shall be provided.

3.19.1 VEHICLE OPERATOR'S INSTRUCTION MANUAL

The Operator's Instruction Manual shall contain all information needed for the optimum operation of the vehicles; including general vehicle familiarization material, location, function, and operation of all controls, indicators, switches, and emergency procedures and trouble diagnoses.

The manual shall be logically organized with systems and elements considered in descending order of importance. Care shall be taken that all statements are clear, positive, and accurate with no possibility of incorrect implications or inferences.

3.19.2 VEHICLE PREVENTIVE MAINTENANCE MANUAL

The Preventive Maintenance Manual shall enable the maintainer to perform the periodic inspection and preventive maintenance tasks. These shall include all lubrication and inspection requirements for all apparatus requiring such work on a periodic basis to maintain the VEHICLEs in satisfactory working order. The contractor shall ensure that all apparatus supplied has an inspection interval determined by the component manufacturer.

The manual shall contain a detailed description of each component to enable a maintainer to maintain the vehicle. The manual shall include a complete systematic procedure for long term periodic maintenance requirements for all components.

3.19.3 VEHICLE SERVICE MANUAL

The Service Manual shall enable the technician to perform diagnostics and repairs of the completed VEHICLE. The Contractor shall ensure that all apparatus supplied is covered by the manual.

The Diagnostic and Troubleshooting section of the manual shall enable the technician to troubleshoot, adjust, and complete running repair for all systems on the vehicles. Running repair is the diagnosis and correction of any subsystem or component malfunction by adjustment, repair or replacement in order to return the vehicle to service in a reasonably short period of time. The section shall include a general description and operation of each system, block diagrams, signal flow diagrams, detailed schematics with narrative and functional wiring and piping diagrams.

3.19.4 VEHICLE PARTS MANUAL

The Parts Manual shall enumerate and describe every component with its related parts and Contractor part numbers. Supplier part numbers shall be included in their respective manuals. Cut-away and exploded drawings shall be used to permit identification of all parts not readily identified by description. Each part or component shall be identified as being part of a functional group. An important aspect of the parts catalog shall be the complete itemization of all servicing materials (oils, paints, special compounds, greases, other) required on the vehicles and the component requiring its use.

3.19.5 VEHICLE ELECTRICAL SCHEMATICS MANUAL

The Electrical Schematics Manual shall enumerate and describe every component with its related electrical schematics and Contractor electrical schematics. Supplier schematics shall be included.

4.0 TESTING, INSPECTION/ACCEPTANCE
Every vehicle shall undergo testing and inspection performed by the contractor. The contractor shall provide the Government with documentation of the testing. All deficiencies identified during testing and inspection shall be documented and resolved prior to delivery of each vehicle.

4.1 VEHICLE WEIGHT AND PAYLOAD ESTIMATES
The completed vehicle shall be weighed to determine the curb weight and the available payload capacity and distribution. Occupant weight shall be calculated at 175 pounds per seated position. Data for all content shall be compiled, calculated, and recorded in accordance to instructions and format contained in the NTEA ULTRAMOD spreadsheet.

4.2 VEHICLE ROAD TEST
All vehicles shall be road tested. The road test shall be for a minimum of 10 miles. The road test shall be considered successful if all mounted and items remain secure and operational.

4.3 VEHICLE IDLE TEST
All vehicles shall be idle tested with all electrical equipment activated, emergency lights on (less siren). The idle test shall be for a minimum of 1 hour. The idle test shall be considered successful if all equipment and the vehicle remain functional (no shutdowns) and within normal operating (stable) temperatures and conditions. The ambient temperature shall be recorded.

4.4 VOCATIONAL TEST
For each vehicle, all equipment shall be functionally tested and verified to operate in accordance with manufacturer's operating instructions and to the government's satisfaction.

4.5 INSPECTION/ACCEPTANCE
The Government reserves the right and discretion to request the contractor to furnish a first order (FO) vehicle for verification as meeting the requirements herein. The FO shall be, prior to offering for verification by the Government, complete in every respect, i.e., all components, equipment, and accessories assembled and installed and operational. Prior to presentation, the FO shall be fully inspected for compliance with all contract requirements by the contractor's quality inspectors. Such inspection results, including any interim inspections, shall be documented and presented to the government representatives with the FO. Inspection results shall include all deficiencies found and the corrective actions taken. Upon Government approval of the FO, production methods shall assure that subsequent vehicles are identical to the approved FO. The inspection of the FO shall be recorded by digital video or digital photographs showing the assembly of all major subassembly components. After Government acceptance of the FO, the contractor shall only substitute materials, components, or assemblies upon government acceptance of such and embodied in a contract modification. Upon acceptance of the FO, the vehicle shall be shipped in accordance with shipment terms of the contract. The contractor shall produce two copies of the files of the FO. One copy shall be retained by the contractor as an approved sample; the second copy shall be retained by the GSA Engineer. Failure of the FO to meet the requirements of the specifications may be cause for the Government to refuse acceptance of all vehicles until corrective action has been taken.

5.0 WARRANTY
The contractor shall provide a 3 year/36,000 mile warranty. The warranty shall include the commercial furnished equipment warranties, including all other parts and components required herein, against parts failure or malfunction due to design, construction or installation errors, defective workmanship, and missing or incorrect parts, for a minimum period of 3 years/36,000 miles from date of acceptance. Some components may require the purchase of an extended comprehensive warranty from the manufacturer to meet the minimum terms. If the contractor receives from any supplier or subcontractor additional warranty on the whole or any component of the vehicles, in form of time or mileage, including any prorated arrangements, or the contractor generally extends to its commercial customers greater or extended warranty coverage, the government shall receive corresponding warranty benefits. The warranty coverage shall begin when the Government accepts the vehicles from the contractor FOB point of origin/destination.

Labor, parts, shipping cost, per diem and travel for warranted repairs within the Continental United States (CONUS), shall be the responsibility of the contractor. This shall include 3rd party Original Equipment Manufacturer (OEM) selected vendors for corrective action or warranty issues on the vehicle if applicable. Warranty registration cards shall also be provided as applicable. The contractor shall furnish the Government with warranty certificates showing evidence that the warranty requirements above have been met.

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